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```
SSSSSSSS  AAAAAA  TTTTTTTTTT  SSSSSSSS  SSSSSSSS  FFFFFFFFFF  000000  11
SSSSSSSS  AAAAAA  TTTTTTTTTT  SSSSSSSS  SSSSSSSS  FFFFFFFFFF  000000  11
SS      AA      AA      TT      SS      SS      FF      00      1111
SS      AA      AA      TT      SS      SS      FF      00      1111
SS      AA      AA      TT      SS      SS      FF      00      11
SS      AA      AA      TT      SS      SS      FF      00      11
SSSSSSS  AA      AA      TT      SSSSSS  SSSSSS  FFFFFFFF  00  00  00  11
SSSSSSS  AA      AA      TT      SSSSSS  SSSSSS  FFFFFFFF  00  00  00  11
SS      AAAAAAAAAA  TT      SS      SS      FF      0000  00  11
SS      AAAAAAAAAA  TT      SS      SS      FF      0000  00  11
SS      AA      AA      TT      SS      SS      FF      00  00  11
SS      AA      AA      TT      SS      SS      FF      00  00  11
SSSSSSSS  AA      AA      TT      SSSSSSSS  SSSSSSSS  FF      000000  111111
SSSSSSSS  AA      AA      TT      SSSSSSSS  SSSSSSSS  FF      000000  111111
                                     ....
                                     ....
                                     ....
                                     ....

LL      IIIIII  SSSSSSSS
LL      IIIIII  SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LLLLLLLLLL  IIIIII  SSSSSSSS
LLLLLLLLLL  IIIIII  SSSSSSSS
```


SATSSF01
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- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:30:10 VAX/VMS Macro V04-00

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```
0000 1 .TITLE SATSSF01 - SATS SYSTEM SERVICE TESTS (FAILING S.C.)
0000 2 .IDENT 'V04-000'
0000 3
0000 4
0000 5 *****
0000 6
0000 7 *
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0000 25 *
0000 26 *****
0000 27
0000 28
0000 29 ++
0000 30 FACILITY: SATS SYSTEM SERVICE TESTS
0000 31
0000 32 ABSTRACT: The SATSSF01 module tests the execution of the following
0000 33 VMS system services, invoked in such a way as to expect failing
0000 34 status codes:
0000 35 $DACEFC
0000 36 $DLCEFC
0000 37 $ASCEFC
0000 38 $SETEXV
0000 39
0000 40
0000 41 ENVIRONMENT: User mode image; needs CMKRNL privilege,
0000 42 dynamically acquires other privileges, as needed.
0000 43
0000 44 AUTHOR: THOMAS L. CAFARELLA, CREATION DATE: AUG, 1978
0000 45 PAUL D. FAY (DISPSERV & TESTSERV MACROS)
0000 46
0000 47 MODIFIED BY:
0000 48
0000 49 V03-001 LDJ0001 Larry D. Jones 17-Sep-1980
0000 50 Modified to conform to new build command procedures.
0000 51 **
0000 52 --
```



```

0000 54 .SBTTL DECLARATIONS
0000 55 :
0000 56 : MACRO LIBRARY CALLS
0000 57 :
0000 58 $PRVDEF ; privilege definitions
0000 59 $UETPDEF ; UETP message definitions
0000 60 $SHR_MESSAGES UETP,116,<<TEXT,INFO>> ; UETPS_TEXT definition
0000 61 $PHDDEF ; process header definitions
0000 62 $PCBDEF ; PCB definitions
0000 63 $SSDEF ; SS definitions
0000 64 $STSDEF ; STS definitions
0000 65 :
0000 66 : Equated symbols
0000 67 :
00000000 0000 68 WARNING = 0 ; warning severity value for msgs
00000001 0000 69 SUCCESS = 1 ; success
00000002 0000 70 ERROR = 2 ; error
00000003 0000 71 INFO = 3 ; information
00000004 0000 72 SEVERE = 4 ; fatal
00000001 0000 73 PRVHND_SXV40 = 1 ; page 0 address for SETEXV
0000 74

```



```
0000 76 .SBTTL OWN STORAGE
0000 77 .PSECT RODATA, RD, NOWRT, NOEXE, LONG
0000 78
0000 79 TEST_MOD_NAME:
31 30 46 53 53 54 41 53 00' 0000 80 .ASCIC /SATSSF01/ ; needed for SATSMS message
08 0000
0009 81 TEST_MOD_NAME D:
46 53 53 54 41 53 00000011'010E0000' 0009 82 .ASCID /SATSSF01/ ; module name
31 30 0017
0019 83 TEST_MOD_BEGIN:
6E 75 67 65 62 00' 0019 84 .ASCIC /begun/
05 0019
001F 85 TEST_MOD_SUCC:
6C 75 66 73 73 65 63 63 75 73 00' 001F 86 .ASCIC /successful/
0A 001F
002A 87 TEST_MOD_FAIL:
64 65 6C 69 61 66 00' 002A 88 .ASCIC /failed/
06 002A
0031 89 DACEFC:
43 46 45 43 41 44 00' 0031 90 .ASCIC /DACEFC/
06 0031
0038 91 DLCEFC:
43 46 45 43 4C 44 00' 0038 92 .ASCIC /DLCEFC/
06 0038
003F 93 ASCEFC:
43 46 45 43 53 41 00' 003F 94 .ASCIC /ASCEFC/
06 003F
0046 95 SETEXV:
56 58 45 54 45 53 00' 0046 96 .ASCIC /SETEXV/
06 0046
004D 97 INADR:
00000000'00000000' 004D 98 .LONG NOACCESS, NOACCESS ; page address of noaccess psect
0055 99 PROT:
00000000' 0055 100 .LONG PRT$C_NA ; protection code for no access psect
0059 101 NAME_DLC:
43 4C 44 46 53 00000061'010E0000' 0059 102 .ASCID /SFDLC/ ; legal name string
0066 103 NAME_DLC0:
0000006E'010E0000' 0066 104 .ASCID // ; zero length string
006E 105 NAME_DLC15:
54 20 45 52 4F 4D 00000076'010E0000' 006E 106 .ASCID /MORE THAN 15 CHARACTERS/ ; illegal string length test string
41 52 41 48 43 20 35 31 20 4E 41 48 007C
53 52 45 54 43 0088
008D 107 VECTOR_SXV:
00000000 008D 108 .LONG 0 ; vector parameter for SETEXV
0091 109 ACMODE_SXV:
00000001 0091 110 .LONG 1 ; access mode param. for SETEXV
0095 111 PRVHND_SXV41:
00000000 0095 112 .LONG 0 ; readonly access for SETEXV
0099 113 CS1:
21 20 74 73 65 54 000000A1'010E0000' 0099 114 .ASCID \Test !AC service name !AC step !UL failed.\
6E 20 65 63 69 76 72 65 73 20 43 41 00A7
70 65 74 73 20 43 41 21 20 65 6D 61 00B3
2E 64 65 6C 69 61 66 20 4C 55 21 20 00BF
00CB 115 CS2:
74 63 65 70 78 45 000000D3'010E0000' 00CB 116 .ASCID \Expected !AS = !XL received !AS = !XL\
4C 58 21 20 3D 20 53 41 21 20 64 65 00D9
41 21 20 64 65 76 69 65 63 65 72 20 00E5
```


SATSSF01
V04-000

- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:30:10 VAX/VMS Macro V04-00
OWN STORAGE 5-SEP-1984 04:27:16 [UETPSY.SRC]SATSSF01.MAR;1

Page 4
(1)

4C 58 21 20 3D 20 53	00F1		
	00F8	117 CS3:	
74 63 65 70 78 45 00000100'010E0000'	00F8	118	.ASCID \Expected !AS!UB = !XL received !AS!UB = !XL\
20 3D 20 42 55 21 53 41 21 20 64 65	0106		
64 65 76 69 65 63 65 72 20 4C 58 21	0112		
58 21 20 3D 20 42 55 21 53 41 21 20	011E		
	4C		
	012A		
	012B	119 EXP:	
73 75 74 61 74 73 00000133'010E0000'	012B	120	.ASCID \status\


```
0139 122 :  
0139 123 : .SBTTL R/W PSECT  
00000000 124 : .PSECT RWDATA, RD, WRT, NOEXE, LONG  
0000 125 :  
0000 126 : IPID: ; PID for this process  
00000000 0000 127 : .LONG 0  
00000000 0004 128 : CURRENT_TC: ; ptr to current test case  
00000000 0004 129 : .LONG 0  
0008 130 : .ALIGN LONG  
00000044 0008 131 : REG_SAVE_AREA: ; register save area  
0008 132 : .BLKL 15  
007480D9 0044 133 : MOD_MSG_CODE: ; test module message code for putmsg  
0048 134 : .LONG UETPS_SATSMS  
00000000 0048 135 : TMN_ADDR: ;  
004C 136 : .ADDRESS TEST_MOD_NAME  
00000019 004C 137 : TMD_ADDR: ;  
0050 138 : .ADDRESS TEST_MOD_BEGIN  
0050 139 : PRVPRT: ;  
00 0050 140 : .BYTE 0 ; protection return byte for SETPRT  
00000000 00000000 0051 141 : PRIVMASK: ; priv. mask  
0059 142 : .QUAD 0  
00000000 0059 143 : CHM_CONT: ; change mode continue address  
005D 144 : .LONG 0  
00000065 005D 145 : RETADR: ; returned address's from SETPRT  
0065 146 : .BLKL 2  
0065 147 : DAC: ; DACEFC parameter list  
0065 148 : $DACEFC 0 ; DLCEFC parameter list  
006D 149 : DLC: ;  
006D 150 : $DLCEFC NAME_DLCO ; DLCEFC parameter list  
0075 151 : ASC: ; ASCEFC parameter list  
0075 152 : $ASCEFC 0,0,0,1 ; ASCEFC parameter list  
0089 153 : SET: ; SETEXV parameter list  
0089 154 : $SETEXV VECTOR_SXV,0,ACMODE_SXV,PRVHND_SXV40 ; SETEXV parameter list  
74 73 69 67 65 72 000000A5'010E0000' 009D 155 : REG: ;  
52 20 72 65 00AB 156 : .ASCID \register R\  
00AF 157 : REGNUM: ; register number  
00000000 00AF 158 : .LONG 0  
00B3 159 : MSGL: ; buffer desc.  
00000050 00B3 160 : .LONG 80  
000000BB 00B7 161 : .ADDRESS BUF  
00BB 162 : BUF: ;  
0000010B 00BB 163 : .BLKB 80  
010B 164 : MESSAGEL: ; message desc.  
00000000 010B 165 : .LONG 0  
000000BB 010F 166 : .ADDRESS BUF  
0113 167 : SERV_NAME: ; service name pointer  
00000000 0113 168 : .LONG 0
```



```
00000000 170 .PSECT SATS ACCVIO_1, RD, WRT, NOEXE, PAGE
00000200 0000 171 EMPTY: .BLKB 512 ; reserve a page of space
0200 172 :
0200 173 : +
0200 174 : *****
0200 175 : *
0200 176 : * THE ORDER OF STATEMENTS IN THIS PSECT IS CRITICAL. *
0200 177 : * DO NOT RE-ARRANGE THE VARIABLES. CONSULT SATS *
0200 178 : * FUNCTIONAL SPECIFICATION FOR A DESCRIPTION OF THE USE *
0200 179 : * OF THE EMPTY PSECT (AND ITS COMPANION PSECT, NOACCESS). *
0200 180 : *
0200 181 : *****
0200 182 : -
0200 183 :
000001FF 0200 184 PRVHND_SXV42 = . - 1 ; prvhd arg for SETEXV (last byte in the page)
000001F3 0200 185 = . - 13 ; allow room for string descriptor
01F3 186 ; type AAAAA_SSSX5 go here:
00000006 01F3 187 .LONG 6 ; string length (will cross psect boundary)
000001FB 01F7 188 .ADDRESS .+4 ; string address
01FB 189 ; type AAAAA_SSSX3 go here:
000001FC 01FB 190 .BLKB 1 ; low-order byte of string length
01FC 191 ; type AAAAA_SSSX2 go here:
00000200 01FC 192 .BLKL 1 ; string length
0200 193 :
0200 194 :
0200 195 :
0200 196 :
00000000 197 .PSECT SATS ACCVIO_2, RD, WRT, NOEXE, PAGE
00000200 0000 198 NOACCESS: .BLKB 512 ; reserve a page of space
00000000 0200 199 = . - 512 ; return loc ctr to beginning of psect
00000000 0000 200 .ADDRESS EMPTY ; address of accessible string
00000000 0004 201 .ADDRESS EMPTY/^X100 ; address of accessible string
0008 202 : +
0008 203 : *** NOTE -- DO NOT CHANGE LOCATION OR SEQUENCE OF ABOVE STATEMENTS!
0008 204 : *** THIS PSECT (NOACCESS) MUST APPEAR IN MEMORY IMMEDIATELY
0008 205 : *** FOLLOWING THE EMPTY PSECT. PSECT NAMES AND OPTIONS WILL BE
0008 206 : *** CHOSEN TO FORCE THE DESIRED PSECT ORDERING.
0008 207 : -
0008 208 :
0008 209 :
0008 210 :
0008 211 :
```



```
00000000 213      .PSECT SATSSF01, RD, WRT, EXE, LONG
0000      214      .SBTTL SATSSF01
0000      215      :++
0000      216      : FUNCTIONAL DESCRIPTION:
0000      217      :
0000      218      :     After performing some initial housekeeping, such as
0000      219      :     printing the module begin message and acquiring needed privileges,
0000      220      :     the system services are tested in each of their failure conditions.
0000      221      :     Detected failures are identified and an error message is printed
0000      222      :     on the terminal. Upon completion of the test a success or fail
0000      223      :     message is printed on the terminal.
0000      224      :
0000      225      : CALLING SEQUENCE:
0000      226      :
0000      227      :     $ RUN SATSSF01 ... (DCL COMMAND)
0000      228      :
0000      229      : INPUT PARAMETERS:
0000      230      :
0000      231      :     none
0000      232      :
0000      233      : IMPLICIT INPUTS:
0000      234      :
0000      235      :     none
0000      236      :
0000      237      : OUTPUT PARAMETERS:
0000      238      :
0000      239      :     none
0000      240      :
0000      241      : IMPLICIT OUTPUTS:
0000      242      :
0000      243      :     Messages to SYS$OUTPUT are the only output from SATSSF01.
0000      244      :     They are of the form:
0000      245      :
0000      246      :         %UETP-S-SATSMS, TEST MODULE SATSSF01 BEGUN ... (BEGIN MSG)
0000      247      :         %UETP-S-SATSMS, TEST MODULE SATSSF01 SUCCESSFUL ... (END MSG)
0000      248      :         %UETP-E-SATSMS, TEST MODULE SATSSF01 FAILED ... (END MSG)
0000      249      :         %UETP-I-TEXT, ... (VARIABLE INFORMATION ABOUT A TEST MODULE FAILURE)
0000      250      :
0000      251      : COMPLETION CODES:
0000      252      :
0000      253      :     The SATSSF01 routine terminates with a $EXIT to the
0000      254      :     operating system with a status code defined by UETP$_SATSMS.
0000      255      :
0000      256      : SIDE EFFECTS:
0000      257      :
0000      258      :     none
0000      259      :
0000      260      : --
0000      261      :
0000      262      :
0000      263      :
0000      264      : TEST_START SATSSF01                ; let the test begin
```



```
0000 0000
0004'CF 00 DD 0002
0000'CF 00 DF 0006
00000000'GF 02 FB 000C
00000000'GF 00 FB 0013
0009'CF 01 7F 001A
00000000'GF 01 FB 001E
05AD 30 0025
004C'CF 001F'CF DE 0028
0044'CF 03 00 01 FO 002F
00 00 DD 0036
04DC'CF 01 FB 0038
003D
003D 265 STP0: $SETPRT_S INADR=W^INADR, RETADR=W^RETADR, -
003D 266 PROT=W^PROT, PRVPRT=W^PRVPRT ; set noaccess psect
0056 267 ; ... for no user access
0056 268 .SBTTL DACEFC TESTS
0056 269 ;+
0056 270 ;
0056 271 ; $DACEFC tests
0056 272 ; test for an EFN of 0
0056 273 ;
0056 274 ;-
0113'CF 0031'CF DE 0056 MOVAL W^DACEFC,W^SERV_NAME ; set service name
005D 275 $DACEFC G W^DAC
0066 276 FAIL_CHECK SSS_ILLEFC ; check for correct failure
0066 277 PUSHL #SS$ ILLEFC
006C 278 CALLS #1,W^REG_CHECK
0071 279 $DACEFC S #0 ; check S form
007A 279 FAIL_CHECK SSS_ILLEFC ; check for correct failure
007A 280 PUSHL #SS$ ILLEFC
0080 281 CALLS #1,W^REG_CHECK
0085 282 ;+
0085 282 ; test for a non-zero but less than 64 EFN
0085 283 ;
0085 284 ;-
0085 285 NEXT_TEST
0085
0085 STP1:
0085 MOVL #1,W^CURRENT_TC
008A 286 PUSHL #0
008C 287 CALLS #1,W^REG_SAVE
0091 286 MOVL #63,W^DAC+DACEFC$_EFN ; set EFN
0096 287 $DACEFC G W^DAC
009F 288 FAIL_CHECK SSS_ILLEFC ; check for correct failure
009F 288 PUSHL #SS$ ILLEFC
00A5 289 CALLS #1,W^REG_CHECK
00AA 289 $DACEFC S #63 ; check the S form
00B3 290 FAIL_CHECK SSS_ILLEFC ; check for correct failure
00B3 290 PUSHL #SS$ ILLEFC
00B9 291 CALLS #1,W^REG_CHECK
00BE 291 ;+
00BE 292 ;
00BE 293 ; test for a non-zero but greater than 127
```



```
00BE 294 :  
00BE 295 :-  
00BE 296  
00BE  
00BE  
00BE  
00BE  
0004'CF 02 DO 00BE  
00 00 DD 00C3  
04DC'CF 01 FB 00C5  
0069'CF 00000080 8F DO 00CA 297  
00D3 298  
00DC 299  
000000EC 8F DD 00DC  
04E6'CF 01 FB 00E2  
00E7 300  
00F4 301  
000000EC 8F DD 00F4  
04E6'CF 01 FB 00FA
```

STP2:

NEXT_TEST

```
MOVL #2,W^CURRENT_TC  
PUSHL #0  
CALLS #1,W^REG_SAVE  
MOVL #128,W^DAC+DACEFC$EFN ; set EFN  
$DACEFC G W^DAC  
FAIL_CHECK SSS_ILLEFC ; check for correct failure  
PUSHL #SS$ ILLEFC  
CALLS #1,W^REG_CHECK  
$DACEFC S #128 ; check S form  
FAIL_CHECK SSS_ILLEFC ; check for correct failure  
PUSHL #SS$ ILLEFC  
CALLS #1,W^REG_CHECK
```



```
00FF 303 .SBTTL DLCEFC TESTS
00FF 304 :+
00FF 305 :
00FF 306 : $DLCEFC tests
00FF 307 : test for a zero length cluster name
00FF 308 :
00FF 309 :-
00FF 310 NEXT_TEST
00FF
00FF STP3:
00FF          MOVL    #3,W^CURRENT_TC
00FF          PUSHL   #0
00FF          CALLS   #1,W^REG_SAVE
00FF          MOVAL   W^DLCEFC,W^SERV_NAME ; set service name
0113'CF 0038'CF DE 010B 311 $DLCEFC G W^DLC
0112 312 FAIL_CHECK SSS_IVLOGNAM ; check for correct failure
011B 313          PUSHL   #SS$ IVLOGNAM
011B          CALLS   #1,W^REG_CHECK
04E6'CF 01 FB 0121 314 $DLCEFC S W^NAME DLC0 ; check the _S form
0126 315 FAIL_CHECK SSS_IVLOGNAM ; check for correct failure
0131          PUSHL   #SS$ IVLOGNAM
0131          CALLS   #1,W^REG_CHECK
00000154 8F DD 0131 316 :+
04E6'CF 01 FB 0137 317 :
013C 318 : test for a non-zero but greater than 15 length cluster name
013C 319 :
013C 320 :-
013C 321 NEXT_TEST
013C
013C STP4:
013C          MOVL    #4,W^CURRENT_TC
013C          PUSHL   #0
013C          CALLS   #1,W^REG_SAVE
0071'CF 006E'CF DE 0148 322 MOVAL   W^NAME,DLC15,W^DLC+DLCEFC$_NAME ; set name address parameter
014F 323 $DLCEFC G W^DLC
0158 324 FAIL_CHECK SSS_IVLOGNAM ; check for correct failure
0158          PUSHL   #SS$ IVLOGNAM
015E          CALLS   #1,W^REG_CHECK
0163 325 $DLCEFC S W^NAME,DLC15 ; check the _S form
016E 326 FAIL_CHECK SSS_IVLOGNAM ; check for correct failure
0174          PUSHL   #SS$ IVLOGNAM
0174          CALLS   #1,W^REG_CHECK
0179 327 :+
0179 328 :
0179 329 : a test for the requirement of PRMCEB privilege is not needed
0179 330 : because a process, with the same UIC as the owner UIC of a
0179 331 : created common EFC, can delete it without having the PRMCEB
0179 332 : privilege.
0179 333 :
0179 334 :-
```



```
0179 336 .SBTTL ASCEFC TESTS
0179 337 :+
0179 338 :
0179 339 : $ASCEFC tests
0179 340 : test for zero EFN
0179 341 :
0179 342 :-
0179 343 NEXT_TEST
0179
0179 STP5:
0004'CF 05 DO 0179 MOVL #5,W^CURRENT_TC
0000'CF 00 DD 017E PUSHL #0
04DC'CF 01 FB 0180 CALLS #1,W^REG_SAVE
0113'CF 003F'CF DE 0185 344 MOVAL W^ASCEFC,W^SERV_NAME ; set service name
018C 345 $ASCEFC G W^ASC
0195 346 FAIL_CHECK SSS_ILLEFC ; check for correct failure
000000EC 8F DD 0195 PUSHL #SS$ ILLEFC
04E6'CF 01 FB 019B CALLS #1,W^REG_CHECK
01A0 347 $ASCEFC S #0,W^NAME DLC ; check S form
01B1 348 FAIL_CHECK SSS_ILLEFC ; check for correct failure
000000EC 8F DD 01B1 PUSHL #SS$ ILLEFC
04E6'CF 01 FB 01B7 CALLS #1,W^REG_CHECK
01BC 349 :+
01BC 350 :
01BC 351 : test for non-zero but less than 64 EFN
01BC 352 :
01BC 353 :-
01BC 354 NEXT_TEST
01BC
01BC STP6:
0004'CF 06 DO 01BC MOVL #6,W^CURRENT_TC
0000'CF 00 DD 01C1 PUSHL #0
04DC'CF 01 FB 01C3 CALLS #1,W^REG_SAVE
0079'CF 3F DO 01C8 355 MOVL #63,W^ASC+ASCEFC$EFN ; set the EFN to 63
01CD 356 $ASCEFC G W^ASC
01D6 357 FAIL_CHECK SSS_ILLEFC ; check for correct failure
000000EC 8F DD 01D6 PUSHL #SS$ ILLEFC
04E6'CF 01 FB 01DC CALLS #1,W^REG_CHECK
01E1 358 $ASCEFC S #63,W^NAME DLC ; check S form
01F2 359 FAIL_CHECK SSS_ILLEFC ; check for correct failure
000000EC 8F DD 01F2 PUSHL #SS$ ILLEFC
04E6'CF 01 FB 01F8 CALLS #1,W^REG_CHECK
01FD 360 :+
01FD 361 :
01FD 362 : test for a non-zero but greater than 127 EFN
01FD 363 :
01FD 364 :-
01FD 365 NEXT_TEST
01FD
01FD STP7:
0004'CF 07 DO 01FD MOVL #7,W^CURRENT_TC
0000'CF 00 DD 0202 PUSHL #0
04DC'CF 01 FB 0204 CALLS #1,W^REG_SAVE
0079'CF 00000080 8F DO 0209 366 MOVL #128,W^ASC+ASCEFC$EFN ; set the EFN to 128
0212 367 $ASCEFC G W^ASC
021B 368 FAIL_CHECK SSS_ILLEFC ; check for the correct failure
000000EC 8F DD 021B PUSHL #SS$ ILLEFC
```



```
04E6'CF 01 FB 0221 CALLS #1,W^REG_CHECK
0226 369 $ASCEFC S #128,W^NAME_DLCT ; check S form
0238 370 FAIL_CHECK SSS_ILLEFC ; check for correct failure
000000EC 8F DD 0238
04E6'CF 01 FB 0241
0246 371 ;+
0246 372 ; test for a legal EFN but not addressable name string
0246 373 ;
0246 374 ;
0246 375 ;
0246 376 :-
NEXT_TEST
0246
STP8:
0004'CF 08 DO 0246
00 00 DD 024B
04DC'CF 01 FB 024D
0079'CF 00000040 8F DO 0252 377
007D'CF 0000'CF DE 025B 378
0262 379
026B 380
04E6'CF 0C DD 026B
01 01 FB 026D
0272 381
0287 382 $ASCEFC S #64,W^NOACCESS ; check S form
FAIL_CHECK SSS_ACCVIO ; check for correct failure
PUSHL #SS$ ACCVIO
CALLS #1,W^REG_CHECK
04E6'CF 0C DD 0287
01 01 FB 0289
028E 383 ;+
028E 384 ; test for 0 length cluster name
028E 385 ;
028E 386 ;
028E 387 ;
028E 388 :-
NEXT_TEST
028E
STP9:
0004'CF 09 DO 028E
00 00 DD 0293
04DC'CF 01 FB 0295
007D'CF 0066'CF DE 029A 389
02A1 390
02AA 391 $ASCEFC G W^ASC
FAIL_CHECK SSS_IVLOGNAM ; check for correct failure
PUSHL #SS$ IVLOGNAM
CALLS #1,W^REG_CHECK
04E6'CF 01 FB 02B0 392
02B5 393 $ASCEFC S #64,W^NAME_DLCT ; check S form
FAIL_CHECK SSS_IVLOGNAM ; check for correct failure
PUSHL #SS$ IVLOGNAM
CALLS #1,W^REG_CHECK
00000154 8F DD 02CA
04E6'CF 01 FB 02D0
02D5 394 ;+
02D5 395 ; test for greater than 15 length cluster name
02D5 396 ;
02D5 397 ;
02D5 398 ;
02D5 399 :-
NEXT_TEST
02D5
STP10:
0004'CF 0A DO 02D5
00 00 DD 02DA
04DC'CF 01 FB 02DC
MOVL #10,W^CURRENT_TC
PUSHL #0
CALLS #1,W^REG_SAVE
```



```
03F8 429 .SBTTL SETEXV TESTS
03F8 430 :+
03F8 431 :
03F8 432 : $SETEXV TESTS
03F8 433 : test for page 0 access
03F8 434 :
03F8 435 :-
03F8 436 NEXT_TEST
03F8
03F8 STP12:
0004'CF 0C DO 03F8 MOVL #12,W^CURRENT_TC
0000 DD 03FD PUSHL #0
04DC'CF 01 FB 03FF CALLS #1,W^REG_SAVE
0113'CF 0046'CF DE 0404 437 MOVAL W^SETEXV,W^SERV_NAME ; set service name
040B 438 $SETEXV G W^SET
0414 439 FAIL_CHECK SSS_ACCVIO ; check for correct failure
0414 DD 0414 PUSHL #SS$ ACCVIO
04E6'CF 01 FB 0416 440 CALLS #1,W^REG_CHECK
041B $SETEXV_S W^VECTOR_SXV,0,-
041B 441 W^ACMODE_SXV,W^PRVHND_SXV40 ; check_S form
0430 442 FAIL_CHECK SSS_ACCVIO ; check for correct failure
0430 DD 0430 PUSHL #SS$ ACCVIO
04E6'CF 01 FB 0432 443 CALLS #1,W^REG_CHECK
0437 444 :+
0437 445 : test for read-only psect access
0437 446 :
0437 447 :-
0437 448 NEXT_TEST
0437
0437 STP13:
0004'CF 0D DO 0437 MOVL #13,W^CURRENT_TC
0000 DD 043C PUSHL #0
04DC'CF 01 FB 043E CALLS #1,W^REG_SAVE
0099'CF 0095'CF DE 0443 449 MOVAL W^PRVHND_SXV41,W^SET+SETEXV$_PRVHND
044A 450 $SETEXV G W^SET
0453 451 FAIL_CHECK SSS_ACCVIO ; check for correct failure
0453 DD 0453 PUSHL #SS$ ACCVIO
04E6'CF 01 FB 0455 452 CALLS #1,W^REG_CHECK
045A $SETEXV_S W^VECTOR_SXV,0,-
045A 453 W^ACMODE_SXV,W^PRVHND_SXV41 ; check_S form
046F 454 FAIL_CHECK SSS_ACCVIO ; check for correct failure
046F DD 046F PUSHL #SS$ ACCVIO
04E6'CF 01 FB 0471 455 CALLS #1,W^REG_CHECK
0476 456 :+
0476 457 : test for noaccess psect protection
0476 458 :
0476 459 :-
0476 460 NEXT_TEST
0476
0476 STP14:
0004'CF 0E DO 0476 MOVL #14,W^CURRENT_TC
0000 DD 047B PUSHL #0
04DC'CF 01 FB 047D CALLS #1,W^REG_SAVE
0099'CF 01FF'CF DE 0482 461 MOVAL W^PRVHND_SXV42,W^SET+SETEXV$_PRVHND
0489 462 $SETEXV_G W^SET
```


			0492	463	FAIL_CHECK SSS_ACCVIO	; check for correct failure
	OC	DD	0492		PUSHL #SS\$ ACCVIO	
04E6'CF	01	FB	0494		CALLS #1,W^REG_CHECK	
			0499	464	\$SETEXV_S W^VECTOR_SXV,0-	
			0499	465	W^ACMODE_SXV,W^PRVHND_SXV42	; check S form
			04AE	466	FAIL_CHECK SSS_ACCVIO	; check for correct failure
	OC	DD	04AE		PUSHL #SS\$ ACCVIO	
04E6'CF	01	FB	04B0		CALLS #1,W^REG_CHECK	
			04B5	467	TEST_END	; end the test
	004C'CF	DD	04B5		PUSHL W^TMD_ADDR	
	0048'CF	DD	04B9		PUSHL W^TMN_ADDR	
	02	DD	04BD		PUSHL #2	
	0044'CF	DD	04BF		PUSHL W^MOD_MSG_CODE	
00000000'GF	04	FB	04C3		CALLS #SST1,G^LIB\$SIGNAL	
0044'CF	01	FO	04CA		INSV #1,#ST\$V_INHIB_MSG,#1,W^MOD_MSG_CODE	
	0044'CF	DD	04D1		PUSHL W^MOD_MSG_CODE	
00000000'GF	01	FB	04D5		CALLS #1,G^SYS\$EXIT	


```
04DC 469 .SBTTL REG_SAVE
04DC 470 :++
04DC 471 : FUNCTIONAL DESCRIPTION:
04DC 472 : Subroutine to save R2-R11 in the register save location.
04DC 473 :
04DC 474 : CALLING SEQUENCE:
04DC 475 :     PUSHL    #0           ; save a dummy parameter
04DC 476 :     CALLS   #1,W^REG_SAVE ; save R2-R11
04DC 477 :
04DC 478 : INPUT PARAMETERS:
04DC 479 :     NONE
04DC 480 :
04DC 481 : OUTPUT PARAMETERS:
04DC 482 :     NONE
04DC 483 :
04DC 484 :--
04DC 485 :
04DC 486 REG_SAVE:
0008'CF 14 AD 28 OFFC 04DC 487 .WORD    ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
04DE 488     MOVCL3  #4*10,^X14(FP),W^REG_SAVE_AREA ; save the registers in the program
04E5 489     RET
04E6 490     .SBTTL REG_CHECK
04E6 491 :++
04E6 492 : FUNCTIONAL DESCRIPTION:
04E6 493 : Subroutine to test R0 & R2-R11 for proper content after a service
04E6 494 : execution. A snapshot is taken by the REG_SAVE routine at the
04E6 495 : beginning of each step and this routine is executed after the
04E6 496 : services have been executed.
04E6 497 :
04E6 498 : CALLING SEQUENCE:
04E6 499 :     PUSHL    #SS$ XXXXXX    ; push expected R0 contents
04E6 500 :     CALLS   #1,W^REG_CHECK ; execute this routine
04E6 501 :
04E6 502 : INPUT PARAMETERS:
04E6 503 :     expected R0 contents on the stack
04E6 504 :
04E6 505 : OUTPUT PARAMETERS:
04E6 506 :     possible error messages printed using $PUTMSG
04E6 507 :
04E6 508 :--
04E6 509 :
04E6 510 REG_CHECK:
10$ 50 04 AC OFFC 04E6 511 .WORD    ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
04E8 512     CMPL    4(AP),R0           ; is this the right fail code?
04EC 513     BEQL    10$              ; br if yes
04EE 514     PUSHL    R0              ; push received data
04F0 515     PUSHL    4(AP)           ; push expected data
04F3 516     PUSHAL   W^EXP           ; push the string variable
04F7 517     CALLS   #3,W^PRINT_FAIL ; print the error message
04FC 518 10$:
0008'CF 14 AD 28 29 04FC 519     CMPC3    #4*10,^X14(FP),W^REG_SAVE_AREA ; check all but R0
0503 520     BEQL    20$              ; br if O.K.
56 53 00000008'8F C3 0505 521     SUBL3    #REG_SAVE_AREA,R3,R6 ; calculate the register number
050D 522     DIVL2    #4,R6           ;
0510 523     ADDB3    #^X2,R6,W^REGNUM ; put it in the string
0516 524     BICL2    #3,R1           ; backup to register boundry
0519 525     BICL2    #3,R3
```



```
00AF'CF DD 051C 526      PUSHL  W^REGNUM      ; push register number
        61 DD 0520 527      PUSHL  (R1)         ; push received data
        63 DD 0522 528      PUSHL  (R3)         ; push expected data
009D'CF DF 0524 529      PUSHAL  W^REG         ; set string pntr param.
052E'CF 04 FB 0528 530      CALLS   #4,W^PRINT_FAIL ; print the error message
        04 052D 531 20$:   RET
        052D 532          .SBTTL  PRINT_FAIL
        052E 533          :++
        052E 534          : FUNCTIONAL DESCRIPTION:
        052E 535          : Subroutine to report failures using $PUTMSG
        052E 536          :
        052E 537          : CALLING SEQUENCE:
        052E 538          : Mode #1          PUSHL EXPECTED Mode #2      PUSHL REG NUMBER
        052E 539          :                  PUSHL RECEIVED              PUSHL EXPECTED
        052E 540          :                  PUSHAL STRING VAR            PUSHL RECEIVED
        052E 541          :                  CALLS #3,W^PRINT_FAIL        PUSHAL STRING VAR
        052E 542          :                                          CALLS #4,W^PRINT_FAIL
        052E 543          :
        052E 544          : INPUT PARAMETERS:
        052E 545          : Listed above
        052E 546          :
        052E 547          : OUTPUT PARAMETERS:
        052E 548          : an error message is printed using $PUTMSG
        052E 549          :
        052E 550          : --
        052E 551          :
        052E 552          :
        003C 052E 553 PRINT_FAIL:
        052E 554          .WORD  ^M<R2,R3,R4,R5>
        0530 555          $FAO S  W^CS1,W^MESSAGEL,W^MSGL,#TEST_MOD_NAME,W^SERV_NAME,W^CURRENT_TC
        0551 556          PUTMSG  <#UETPS_TEXT,#1,#MESSAGEL>          ; print the message
        04 6C 91 0566 557          CMPB  (AP),#4                      ; is this a register message?
        21 13 0569 558          BEQL  10$                             ; br if yes
        25 11 056B 559          $FAO_S W^CS2,W^MESSAGEL,W^MSGL,4(AP),8(AP),4(AP),12(AP)
        058A 560          BRB  20$                                     ; goto output message
        058C 561 10$:      $FAO_S  W^CS3,W^MESSAGEL,W^MSGL,4(AP),16(AP),8(AP),4(AP),16(AP),12(AP)
        058C 562          :
        05B1 563 20$:      PUTMSG  <#UETPS_TEXT,#1,#MESSAGEL>          ; print the message
        05B1 564          MOVAL  W^TEST_MOD_FAIL,W^TMD_ADDR          ; set failure message address
        004C'CF 002A'CF DE 05C6 565          INSV  #ERROR,#0,#3,W^MOD_MSG_CODE ; set severity code
0044'CF 03 00 02 FO 05CD 566          RET
        04 05D4 567
```



```
05D5 569 .SBTTL MOD_MSG_PRINT
05D5 570 MOD_MSG_PRINT:
05D5 571 :
05D5 572 : *****
05D5 573 : *
05D5 574 : * PRINTS THE TEST MODULE BEG'IN/SUCCESSFUL/FAILED MESSAGES *
05D5 575 : * (USING THE PUTMSG MACRO). *
05D5 576 : *
05D5 577 : *****
05D5 578 :
05D5 579 PUTMSG <W^MOD_MSG_CODE,#2,W^TMN_ADDR,W^TMD_ADDR> ; PRINT MSG
05EA 580 RSB ; ... AND RETURN TO CALLER
05EB 581 :
05EB 582 .SBTTL CHMRTN
05EB 583 CHMRTN:
05EB 584 : *****
05EB 585 : *
05EB 586 : * CHANGE MODE ROUTINE. THIS ROUTINE GETS CONTROL WHENEVER *
05EB 587 : * A CMKRNL, CMEXEC, OR CMSUP SYSTEM SERVICE IS ISSUED *
05EB 588 : * BY THE MODE MACRO ('TO' OPTION). IT MERELY DOES *
05EB 589 : * A JUMP INDIRECT ON A FIELD SET UP BY MODE. IT HAS *
05EB 590 : * THE EFFECT OF RETURNING TO THE END OF THE MODE *
05EB 591 : * MACRO EXPANSION. *
05EB 592 : *
05EB 593 : *****
05EB 594 :
0000059'FF 0000 05EB 595 .WORD 0 ; ENTRY MASK
17 05ED 596 JMP 3CHM_CONT ; RETURN TO MODE MACRO IN NEW MODE
05F3 597 :
05F3 598 : * RET INSTR WILL BE ISSUED IN EXPANSION OF 'MODE FROM, ....' MACRO
05F3 599 :
05F3 600 .END SATSSF01
```


SATSSF01
Symbol table

- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:30:10 VAX/VMS Macro V04-00
5-SEP-1984 04:27:16 [UETPSY.SRC]SATSSF01.MAR;1

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\$\$ARGS	= 00000004		
\$\$T1	= 00000004		
\$\$T2	= 00000009		
ACMODE_SXV	00000091	R	02
ASC	00000075	R	03
ASCEFC	0000003F	R	02
ASCEFC\$_EFN	= 00000004		
ASCEFC\$_NAME	= 00000008		
ASCEFC\$_NARGS	= 00000004		
ASCEFC\$_PERM	= 00000010		
ASCEFC\$_PROT	= 0000000C		
BUF	000000BB	R	03
CHMRTN	000005EB	R	06
CHM_CONT	00000059	R	03
CS1	00000099	R	02
CS2	000000CB	R	02
CS3	000000F8	R	02
CTL\$GL_PHD	*****	X	06
CURRENT_TC	00000004	R	03
DAC	00000065	R	03
DACEFC	00000031	R	02
DACEFC\$_EFN	= 00000004		
DACEFC\$_NARGS	= 00000001		
DLC	0000006D	R	03
DLCEFC	00000038	R	02
DLCEFC\$_NAME	= 00000004		
DLCEFC\$_NARGS	= 00000001		
EMPTY	00000000	R	04
ERROR	= 00000002		
EXP	0000012B	R	02
INADR	0000004D	R	02
INFO	= 00000003		
LIB\$SIGNAL	*****	X	06
MESSAGEL	0000010B	R	03
MOD_MSG_CODE	00000044	R	03
MOD_MSG_PRINT	000005D5	R	06
MSGC	000000B3	R	03
NAME_DLC	00000059	R	02
NAME_DLCO	00000066	R	02
NAME_DLC15	0000006E	R	02
NOACCESS	00000000	R	05
PHD\$Q_PRIVMSK	= 00000000		
PRINT_FAIL	0000052E	R	06
PRIVMSK	00000051	R	03
PRIV_ARGS	= 00000002		
PROT	00000055	R	02
PRT\$C_NA	*****	X	02
PRV\$V_PRMCEB	= 0000000A		
PRVHND_SXV40	= 00000001		
PRVHND_SXV41	00000095	R	02
PRVHND_SXV42	= 000001FF	R	04
PRVPRT	00000050	R	03
REG	0000009D	R	03
REGNUM	000000AF	R	03
REG_CHECK	000004E6	R	06
REG_SAVE	000004DC	R	06
REG_SAVE_AREA	00000008	R	03

RETADR	0000005D	R	03
SATSSF01	00000000	RG	06
SERV_NAME	00000113	R	03
SET	00000089	R	03
SETEXV	00000046	R	02
SETEXV\$_ACMODE	= 0000000C		
SETEXV\$_ADDRES	= 00000008		
SETEXV\$_NARGS	= 00000004		
SETEXV\$_PRVHND	= 00000010		
SETEXV\$_VECTOR	= 00000004		
SEVERE	= 00000004		
SHR\$K_SHRDEF	= 00000001		
SHR\$ TEXT	= 00001130		
SS\$_ACCVIO	= 0000000C		
SS\$_ILLEFC	= 000000EC		
SS\$_IVLOGNAM	= 00000154		
SS\$_NOPRIV	= 00000024		
STEP	= 0000000E		
STP0	0000003D	R	06
STP1	00000085	R	06
STP10	000002D5	R	06
STP11	0000031C	R	06
STP12	000003F8	R	06
STP13	00000437	R	06
STP14	00000476	R	06
STP2	000000BE	R	06
STP3	000000FF	R	06
STP4	0000013C	R	06
STP5	00000179	R	06
STP6	000001BC	R	06
STP7	000001FD	R	06
STP8	00000246	R	06
STP9	0000028E	R	06
ST\$V_INHIB_MSG	= 0000001C		
SUCCESS	= 00000001		
SY\$SASCEFC	*****	GX	06
SY\$SCMKRNL	*****	GX	06
SY\$SDACEFC	*****	GX	06
SY\$SDLCEFC	*****	GX	06
SY\$SEXIT	*****	GX	06
SY\$SFAO	*****	X	06
SY\$SHIBER	*****	GX	06
SY\$SSETEXV	*****	GX	06
SY\$SSETPRN	*****	GX	06
SY\$SSETPRT	*****	GX	06
SY\$SSETPRV	*****	GX	06
SY\$SWAKE	*****	GX	06
TEST_MOD_BEGIN	00000019	R	02
TEST_MOD_FAIL	0000002A	R	02
TEST_MOD_NAME	00000000	R	02
TEST_MOD_NAME_D	00000009	R	02
TEST_MOD_SUCC	0000001F	R	02
TMD_ADDR	0000004C	R	03
TMN_ADDR	00000048	R	03
TPID	00000000	R	03
UETP\$ SATSMS	= 007480D9		
UETP\$ TEXT	= 00741133		

SATSSF01
Symbol table

- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:30:10 VAX/VMS Macro V04-00
5-SEP-1984 04:27:16 [UETPSY.SRC]SATSSF01.MAR;1

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VECTOR_SXV
WARNING

0000008D R 02
= 00000000

+-----+
! Psect synopsis !
+-----+

PSECT name	Allocation	PSECT No.	Attributes
. ABS .	00000000 (0.)	00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
\$ABSS	00000000 (0.)	01 (1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
RODATA	00000139 (313.)	02 (2.)	NOPIC USR CON REL LCL NOSHR NOEXE RD NOWRT NOVEC LONG
RWDATA	00000117 (279.)	03 (3.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC LONG
SATS_ACCVIO_1	00000200 (512.)	04 (4.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC PAGE
SATS_ACCVIO_2	00000200 (512.)	05 (5.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC PAGE
SATSSF01	000005F3 (1523.)	06 (6.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC LONG

+-----+
! Performance indicators !
+-----+

Phase	Page faults	CPU Time	Elapsed Time
Initialization	30	00:00:00.06	00:00:00.80
Command processing	113	00:00:00.67	00:00:02.19
Pass 1	392	00:00:13.04	00:00:26.28
Symbol table sort	0	00:00:01.56	00:00:02.84
Pass 2	144	00:00:02.92	00:00:05.54
Symbol table output	17	00:00:00.11	00:00:00.11
Psect synopsis output	5	00:00:00.03	00:00:00.03
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	703	00:00:18.39	00:00:37.79

The working set limit was 1350 pages.
79290 bytes (155 pages) of virtual memory were used to buffer the intermediate code.
There were 60 pages of symbol table space allocated to hold 999 non-local and 8 local symbols.
600 source lines were read in Pass 1, producing 30 object records in Pass 2.
58 pages of virtual memory were used to define 53 macros.

+-----+
! Macro library statistics !
+-----+

Macro library name	Macros defined
_\$255\$DUA28:[SHRLIB]UETP.MLB;1	12
_\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	2
_\$255\$DUA28:[SYSLIB]STARLET.MLB;2	36
TOTALS (all libraries)	50

1328 GETS were required to define 50 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SATSSF01/OBJ=OBJ\$:SATSSF01 MSRC\$:SATSSF01/UPDATE=(ENH\$:SATSSF01)+EXECML\$/LIB+SHRLIB\$:UETP/LIB

0416

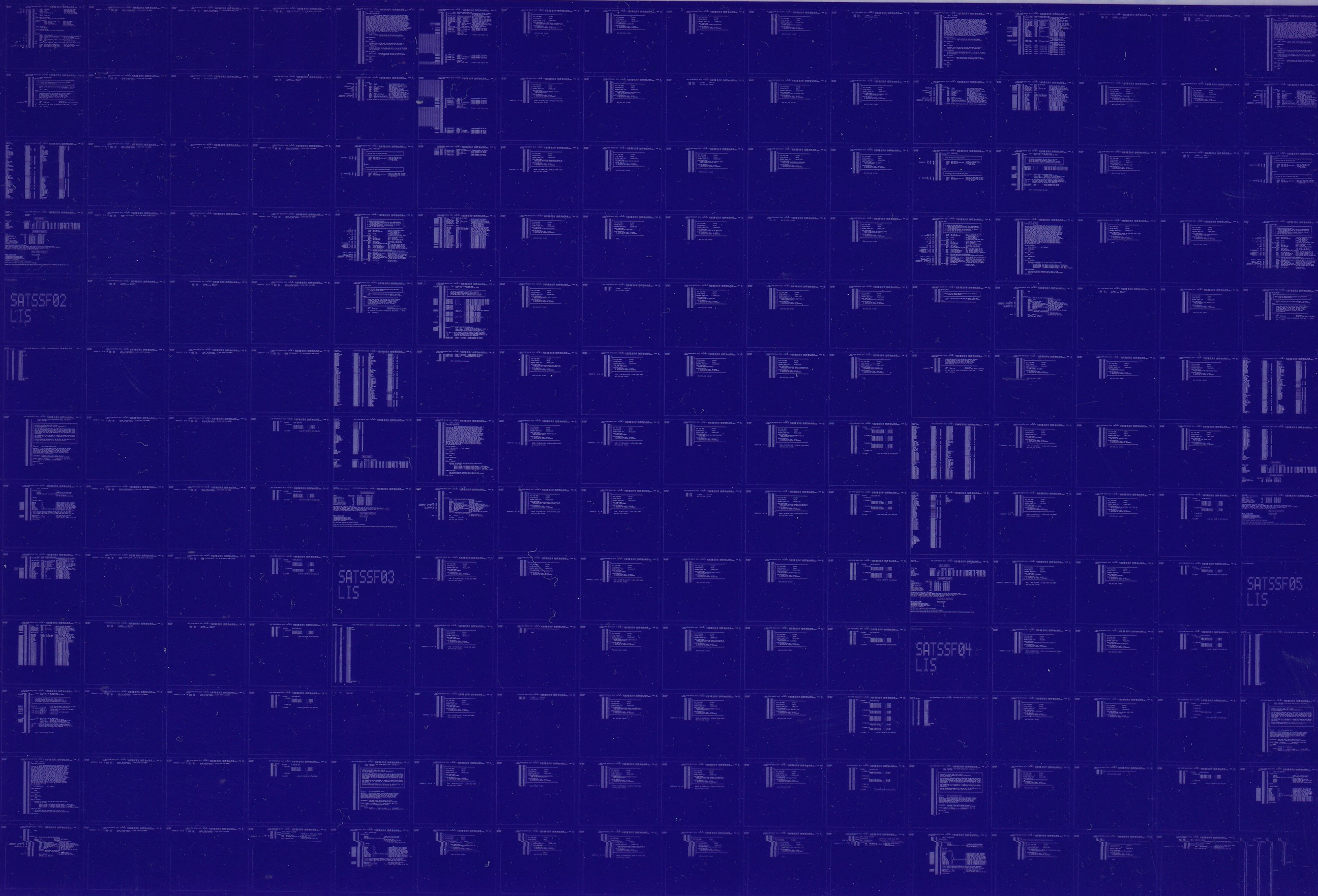
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SATSSF02
LIS

SATSSF03
LIS

SATSSF04
LIS

SATSSF05
LIS